PRODUCT INFORMATION

Expression system E.coli

Domain 1-292aa

UniProt No. Q00535

NCBI Accession No. NP_004926

Alternative Names Cyclin-dependent kinase 5, PSSALRE

PRODUCT SPECIFICATION

Molecular Weight 35.8 kDa (316aa)

Concentration 0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE,Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDK5, also known as cell division protein kinase 5, is a member of the cyclin-dependent kinase family. It is required for proper development of the brain and to be activated, CDK5 must associate with CDK5R1 or CDK5R2. unlike other cyclin dependent kinases, it does not also require phosphorylation on the T loop so that binding with the activator is sufficient to activate the kinase. This protein is involved in the processes of neuronal maturation and migration, phosphorylating the key intracellular adaptor of the reelin signaling chain. Recombinant human CDK5 protein, fused to His-tag at N-terminus, was expressed in E. coli.



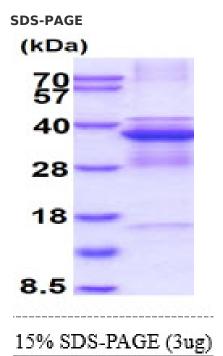
Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHMQKYEK LEKIGEGTYG TVFKAKNRET HEIVALKRVR LDDDDEGVPS SALREICLLK ELKHKNIVRL HDVLHSDKKL TLVFEFCDQD LKKYFDSCNG DLDPEIVKSF LFQLLKGLGF CHSRNVLHRD LKPQNLLINR NGELKLADFG LARAFGIPVR CYSAEVVTLW YRPPDVLFGA KLYSTSIDMW SAGCIFAELA NAGRPLFPGN DVDDQLKRIF RLLGTPTEEQ WPSMTKLPDY KPYPMYPATT SLVNVVPKLN ATGRDLLQNL LKCNPVQRIS AEEALQHPYF SDFCPP

General References

Demetrick DJ. et al. (1994) Cytogenet Cell Genet. 66:72-74. Meyerson M. et al. (1992) EMBO J. 11:2909-2917.

DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.